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PRE-APPEAL BRIEF REQUEST FOR REVIEW						
		101.0042-05000				
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail	Application Number		Filed			
in an envelope addressed to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)]	10/098,683		March 15, 2002			
on	First Named Inventor					
Signature	Gary Karlin Michelson					
	Art Unit		Examiner			
Typed or printed name	3773 Melanie Ruano Tyson		Melanie Ruano Tyson			
Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.						
This request is being filed with a notice of appeal.						
The review is requested for the reason(s) stated on the attached sheet(s). Note: No more than five (5) pages may be provided.						
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applicant/inventor.	<del>-</del>	Signature				
assignee of record of the entire interest.  See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.		Thomas H. Martin				
(Form PTO/SB/96)		Typed	or printed name			
X attorney or agent of record. Registration number 34,383	<u> </u>	330-877-0700				
		Tels	phone number			
attorney or agent acting under 37 CFR 1.34.		Ma	ay 29, 2008			
Registration number if acting under 37 CFR 1.34	<u></u>		Date			
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.						

This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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RESPONSE UNDER 37 C.F.R. 1.116 EXPEDITED PROCEDURE EXAMINING GROUP 3733

PATENT Attorney Docket No. 101.0042-05000 Customer No. 22882

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of: ) Gary Karlin Michelson )	Confirmation No.: 7210	MAY	2 (	9 2008
Serial No.: 10/098,683	Group Art Unit: 3773			
Filed: March 15, 2002	Examiner: Melanie Ruano Tyson			
For: SPINAL IMPLANT CONTAINING )				
MULTIPLE BONE GROWTH )				
PROMOTING MATERIALS )		•		
(as amended)	· .			-

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

## PRE-APPEAL BRIEF REQUEST FOR REVIEW

In reply to the Final Office Action of March 14, 2008, Applicant submits the following remarks for consideration by the Members of the pre-appeal brief conference.

## i. Brief Background

The application includes two independent claims, claims 54 and 79, generally drawn to an apparatus comprising an interbody spinal fusion implant in combination with liquid and solid fusion promoting materials (independent claim 54) or with bloactive and bioresorbable materials (independent claim 79) provided in at least a portion of the hollow interior of the implant. The following issues are the subject of this Request for a Pre-Appeal Conference: (1) the rejection of independent claim 54 under 35 U.S.C. § 112, first paragraph; (2) the objection to the Abstract under 35 U.S.C. § 132(a); and (3) the rejection of independent claims 54 and 79 under 35 U.S.C. § 103(a).

#### II. Clear Errors

- (1) The Examiner's rejection of claims 54-65, 67-78, and 104-106 (including independent claim 54) under 35 U.S.C. § 112, first paragraph, as having new matter is erroneous because:
- (a) according to the Examiner, "Applicant failed to disclose a liquid fusion promoting material and a solid fusion promoting material at the time the application was filed (see claims 54, 67, and 104-106)", and "simply disclosed bone fusion promoting material, such as hydroxyapatite, tricalclum phosphate, and bone morphogenetic protein" (Office Action of March 14, 2008, paragraph bridging pages 2 and 3);
- (b) in response to Applicant's arguments, the Examiner indicated that "the terms 'liquid' and 'solid' cover other materials in addition to those disclosed by the applicant," and "although the materials disclosed by the applicant may inherently contain these properties, the applicant did not disclose all liquid and solid fusion promoting materials" (Office Action of March 14, 2008, second full paragraph on page 5);
- (c) the Examiner reasons that "the limitations 'liquid fusion promoting material' and 'solid fusion promoting material' may include all other liquid and solid fusion promoting materials other than those disclosed by the applicant at the time the invention was filed," and, "therefore, the claims contain new matter and the rejection stands" (Advisory Action of May 23, 2008);
- (d) in response, Applicant submits that the Examiner's rejection does not align with the application of 35 U.S.C. § 112, first paragraph, as discussed in the MPEP;
  - (i) MPEP § 2163 II.A.3(b) indicates that claim limitations can be "inherently supported in the originally filed disclosure" to comply with the written description requirement of 35 U.S.C. § 112, first paragraph, and, citing Hyatt v. Boone, 146 F.3d 1348 (Fed. Cir. 1998), indicates that "where an explicit limitation in a claim is not present in the written description whose benefit is sought it must be shown that a person of ordinary skill would have understood, at the time the patent application was filed, that the description requires that limitation";

- (e) both hydroxyapatite and tricalcium phosphate are generally used in solid form as fusion promoting materials, and BMP is generally used in liquid form as a fusion promoting material, and, in the case of the implant coatings referenced in Applicant's specification, Applicant submits that, as used to promote bone fusion, the solid states of hydroxyapatite and hydroxyapatite tricalcium phosphate, and the liquid state of BMP are inherent, not probable or possible, properties of those materials;
- (f) given the inherent properties of hydroxyapatite, hydroxyapatite tricalcium phosphate, and BMP, Applicant submits that no new matter has been introduced in the claims:
- (g) furthermore, because a person of ordinary skill in the art at the time the patent application was filed would have understood that Applicant disclosed solld and liquid fusion promoting materials, Applicant submits that the Examiner has not made a prima facle case for the rejection under 35 U.S.C. § 112, first paragraph; and
- (h) therefore, the Examiner's rejection of claims 54, 67, and 104-106 under 35 U.S.C. § 112, first paragraph, has been overcome.
- (2) The Examiner's objection under 35 U.S.C. § 132(a) as Introducing new matter to the Abstract is erroneous because:
- (a) given that claims 54, 67, and 104-106 are patentable over the Examiner's rejection under 35 U.S.C. § 112, first paragraph, Applicant submits that the Abstract is adequately supported by the original disclosure; and
- (b) therefore, no new matter has been introduced in the amendments to the Abstract, and the Examiner's objection to the Abstract under 35 U.S.C. § 132(a) is now moot.
- (3) The Examiner's rejection under of claims 54-65, 67-90, and 92-108 (including independent claims 54 and 79) under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,026,373 to Ray et al. ("Ray") is erroneous because:
  - (a) the Examiner indicates that "it would have been obvious to one having

ordinary skill in the art at the time the invention was made to employ the bone growth promoting materials as claimed in Ray's implant in order to promote new bone growth, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of design choice";

- (b) Independent claim 54 recites an apparatus comprising an interbody spinal fusion implant, and a liquid fusion promoting material and a solid fusion promoting material provided in the hollow interior of the implant, and independent claim 79 recites an apparatus comprising an interbody spinal fusion implant, and a bioactive material and a bioresorbable material provided in the hollow interior of the implant;
- (c) besides making an assertion that "it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the bone growth promoting materials as claimed in Ray's implant in order to promote new bone growth," the Examiner has not pointed to any teaching or suggestion in the prior art affording such an assertion;
- (d) more specifically, the Examiner has not pointed to any teaching or suggestion in the prior art for liquid and solid fusion materials provided in the hollow Interior of the interbody spinal fusion implant and for bioactive and bioresorbable materials provided in the hollow interior of the interbody spinal fusion implant as recited in independent claims 54 and 79, respectively; and
- (e) accordingly, Applicant submits that independent claims 54 and 79 are not obvious in view of the Examiner's rejection under 35 U.S.C. § 103(a) based on Ray.

#### III. Conclusion

In view of the foregoing remarks, it is respectfully submitted that the claims are patentable. Therefore, it is requested that the Members of the Pre-Appeal Brief Conference reconsider the outstanding rejections in view of the preceding comments. Issuance of a timely Notice of Allowance of the claims is earnestly solicited.

To the extent any extension of time under 37 C.F.R. § 1.136 is required to obtain entry of this reply, such extension is hereby respectfully requested. If there are any fees due under 37 C.F.R. §§ 1.16 or 1.17 which are not enclosed herewith, including any fees required for an extension of time under 37 C.F.R. § 1.136, please charge such fees to our Deposit Account No. 50-3726.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: May 29, 2008

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